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NETWORK CABLING SOLUTIONS

CATALOGUE

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This catalog represents over a century of Siemon expertise, detailing the latest innovations and key products within Siemon's high quality, high performance product portfolio.



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- ▶▶ **SkinnyPatch™ 28 AWG Modular Cords** with reduced diameter for improved airflow, increased flexibility and improved cable management in high-density patching areas.
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1.0 Category 7_A/Class F_A Products

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4.0 Category 5e Shielded

5.0 Premium and Solution 5e® and S110® Connecting Blocks

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Glossary

Alien Crosstalk: Noise or interference caused by electromagnetic coupling from one cable to another cable, expressed in decibels.

Attenuation: See Insertion Loss.

Attenuation to Crosstalk Ratio (ACR): The difference between insertion loss and crosstalk measured in decibels.

Attenuation to Crosstalk Ratio, Far-end (ACR-F): Crosstalk measured at the opposite end from which the disturbing signal is transmitted, normalized by the insertion loss of the cable or cabling.

Backbone Cabling: Alternate name for Cabling Subsystem 2 or Cabling Subsystem 3 in a typical commercial building environment.

Balance: An indication of signal voltage equality and phase polarity on a conductor pair. Perfect balance occurs when the signals across a twisted-pair are equal in magnitude and opposite in phase with respect to ground.

Balanced Signal Transmission: Two voltages, equal and opposite in phase with respect to each other, across the conductors of a twisted-pair (commonly referred to as tip and ring).

Balun: An impedance matching transformer used to convert unbalanced signals to balanced signals and vice versa.

Bandwidth: A range of frequencies, usually the difference between the upper and lower limits of the range, typically expressed in megahertz (MHz). Bandwidth may also be used to describe the information-carrying capacity of a medium, for example optical fibre bandwidth is specified in megahertz kilometres (MHz.km).

Base 8: End-to-end optical fibre cabling systems, consisting of cables, modules, adapters, trunk assemblies, jumpers, and other components, capable of supporting up to 8-fibre transmission schemes.

Base 12: End-to-end optical fibre cabling systems, consisting of cables, modules, adapters, trunk assemblies, jumpers, and other components, capable of supporting up to 12-fibre transmission schemes.

Bonding: The permanent joining of metallic parts to form an electrically conductive path that will assure electrical continuity and the capacity to conduct safely any current likely to be imposed on it.

Bridged Tap: The multiple appearances of the same cable pair or optical fibre at several distribution points. Also known as parallel connections.

Bridging: A means of providing through connections between conductors or pairs that are terminated on connecting blocks. These through connections are commonly provided by means of individual metallic "bridging" clips or multiple "bridging" clips that are housed in a plastic insulator.

Building Distributor (BD): The international term for intermediate cross-connect; the location where the building backbone cable(s) terminates and at which connections to the campus backbone cable(s) may be made.

Bundled Cable: An assembly of two or more cables continuously bound together to form a single unit prior to installation (sometimes referred to as loomed, speed-wrap or whip cable constructions).

Cabling: A combination of cables, wire, cords and connecting hardware used in the telecommunications infrastructure.

Cabling Subsystem 1: Cabling from the equipment outlet to Distributor A, Distributor B, or Distributor C.

Cabling Subsystem 2: Cabling between Distributor A and either Distributor B or Distributor C (if Distributor B is not implemented).

Cabling Subsystem 3: Cabling between Distributor B and Distributor C.

Campus Backbone: Cabling between buildings that share telecommunications facilities.

Campus Distributor (CD): The international term for main cross-connect; the location where the campus backbone cabling begins.

Category:

1. ANSI/TIA/568-C family of Standards: These North American standards define mechanical and electrical performance of balanced twisted-pair cabling and components by a category of performance (i.e. category 3, category 5e, category 6, category 6A, and category 8).

2. ISO/IEC 11801 2nd edition and addenda: These international standards define

mechanical and electrical performance of telecommunications cabling by a class of performance (class C, class D, class E, class EA, class F, and class FA) and components by a category of performance (i.e. category 3, category 5, category 6, category 6A, category 7, and category 7A).

Channel: The end-to-end transmission path connecting any two points between application specific equipment. Equipment and work area cords, with the exception of the modular interface connecting to equipment, are included in the channel.

Class: See category.

Common Mode Transmission: A transmission scheme where voltages appear equal in magnitude and phase across a conductor pair with respect to ground; may also be referred to as longitudinal mode.

Consolidation Point (CP): A connection facility within Cabling Subsystem 1 for interconnection of cables extending from building pathways to the equipment outlet.

Cord: An assembly of cord cable with a plug on one or both ends used to connect telecommunications equipment to horizontal or backbone cabling.

Cross-connect: A facility enabling the termination of cables as well as their interconnection or cross-connection with other cabling or equipment; also known as a distributor.

Cross-connection: A connection scheme between cabling runs, subsystems and equipment using patch cords or jumpers that attach to connecting hardware on each end.

Crosstalk: Noise or interference caused by electromagnetic coupling from one signal path to another. Crosstalk performance is generally expressed in decibels.

Data centre: A building or portion of a building whose primary function is to house a computer room and its support areas.

Decibel (dB): A standard unit for expressing transmission gain or loss as derived from a ratio of signal voltages or power.

Delay Skew: The difference in propagation delay between the fastest and slowest pair in a cable or cabling system.

Demarcation Point (DP): A point where operational control or ownership changes.

Differential Mode Transmission: A transmission scheme where voltages appear equal in magnitude and opposite in phase across a twisted-pair with respect to ground; may also be referred to as balanced mode.

Distributor A: Optional connection facility that is cabled between the equipment outlet and Distributor B or Distributor C in a hierarchical star topology; representing the horizontal cross-connect (HC) in a typical commercial building environment.

Distributor B: Optional intermediate connection facility that is cabled to Distributor C in a hierarchical star topology; representing the intermediate cross-connect (IC) in a typical commercial building environment.

Distributor C: Central connection facility in a hierarchical star topology; representing the main cross-connect (MC) in a typical commercial building environment.

Electromagnetic Compatibility (EMC): The ability of a system to minimise radiated emissions and maximise immunity from external noise sources.

Electromagnetic Interference (EMI): The interference in signal transmission or reception caused by the radiation of electrical and magnetic fields.

Entrance Facility (EF): The location where both public and private network telecommunications services (e.g. cables, antennae, etc.) enters into a building and/or where backbone pathways linking to other buildings in a campus environment are located. The entrance facility may contain public network interface devices as well as telecommunications equipment. Entrance facilities are often used to house electrical protection equipment and connecting hardware for the transition between outdoor and indoor cable.

Entrance Point, Telecommunications: The point of emergence of telecommunications conductors through an exterior wall, a concrete floor slab, or from a rigid metal conduit or intermediate metal conduit.

Equipment Outlet (EO): Outermost connection facility in a hierarchical star topology; representing the telecommunications outlet/connector (TO) in a typical commercial building environment.

Equipment Room (ER): A centralized space for telecommunications equipment that serves the occupants of the building or multiple buildings in a campus environment. An equipment room is considered distinct from a telecommunications

room because it is considered to be a building or campus serving (as opposed to floor serving) facility and because of the nature or complexity of the equipment that it contains.

Equipment Room, Telecommunications: A centralised space for telecommunications equipment that serves the occupants of the building. An equipment room is considered distinct from the telecommunications room because of the nature and complexity of the equipment it houses.

Ethernet: A family of copper and optical fibre communications technologies for local area networks (LANs).

Far-end Crosstalk (FEXT): Crosstalk measured at the opposite end from which the disturbing signal is transmitted.

Fibre Optic Transmission: See Optical Fibre Transmission.

Fibre Channel: A high-speed network communications technology (commonly running at 2, 4, 8, or 16 Gb/s speeds) that can be deployed over optical fibre or twisted-pair cabling and is primarily used for storage networking.

Floor Distributor (FD): The international term for horizontal cross-connect; the distributor used to connect between the horizontal cable and other cabling subsystems or equipment.

Fully Shielded twisted-pair (S/FTP): A balanced twisted-pair cable containing balanced twisted-pair conductors that are individually foil shielded, surrounded by an overall metallic braid, and bound in a single cable sheath.

Ground: A conducting connection, whether intentional or accidental, between an electrical circuit (telecommunications) or equipment and earth, or to some conducting body that serves in place of the earth.

Hertz (Hz): A measure of frequency as defined in units of cycles per second.

Horizontal Cabling: Alternate name for Cabling Subsystem 1 in a typical commercial building environment.

Horizontal Cross-connect (HC): A cross-connect of horizontal cabling to other cabling, e.g., horizontal, backbone, or equipment.

Hybrid Cable: An assembly of two or more cables, of the same or different types or categories, covered by one overall sheath.

InfiniBand: A switched network communications technology featuring point-to-point bidirectional serial links connecting I/O networks such as storage area networks (SAN) or processors with high-speed peripheral devices such as disks.

Insertion loss:

1. In a copper twisted-pair system, the voltage loss resulting from the insertion of a connector into a transmission line.

2. In an optical fibre system, the loss of optical power caused by inserting a component, such as a connector, coupler or splice, into a previously continuous optical path.

Insulation Displacement Connection (IDC): A wire connection device that penetrates the insulation of a copper wire when it is being inserted (punched-down) into a metal contact, allowing an electrical connection to be made.

Interbuilding Backbone: Telecommunications cable(s) that is part of the campus subsystem that connects one building to another.

Interconnection: A connection scheme that provides direct access to the cabling infrastructure and the ability to make cabling system changes using equipment cords.

Intermediate Cross-Connect (IC): The connection point between a backbone cable that extends from the main cross-connect (first-level backbone) and the backbone cable from the horizontal cross-connect (second-level backbone).

Intrabuilding Backbone: Telecommunications cable(s) that are part of the building /subsystem that connect one equipment room to another.

Jumper: An assembly of twisted-pairs without connectors on either end used to join telecommunications links at a cross-connect.

Laser Optimised: A multimode optical fibre with a refractive index profile optimised for use with laser light sources such as a vertical-cavity surface-emitting laser, or VCSEL.

Link: An end-to-end transmission path provided by the cabling infrastructure. Cabling links include all cables and connecting hardware that comprise the horizontal or backbone subsystems. Equipment and work area cables are not included as part of a link.

Local Area Network (LAN): A geographically limited data communications system for a specific user group consisting of a group of interconnected computers, sharing applications, data, and peripheral devices such as printers and CD-ROM drives intended for the local transport of data, BAS services, video, and voice.

Longitudinal Conversion Loss (LCL): A measure (in dB) of the differential voltage induced on a conductor pair as a result of subjecting that pair to longitudinal voltage. LCL is a measure of circuit balance.

Main Cross-connect (MC): A cross-connect for first level backbone cables, entrance cables, and equipment cables.

Modular Jack: A telecommunications outlet/connector for wire or cords as defined in the FCC Part 68 Subpart F. Modular jacks can have 4, 6 or 8 contact positions, but not all the positions need be equipped with contacts.

Modular Plug: A telecommunications connector for wire or cords as defined in the FCC Part 68 Subpart F. Modular plugs can have 4, 6 or 8 contact positions, but not all the positions need be equipped with contacts.

Multimode Optical Fibre: An optical fibre that will allow multiple modes of light to propagate. The fibre may be either a graded-index or step-index fibre. Multimode optical fibres have a much larger core than singlemode fibres.

Multi-user Telecommunications Outlet Assembly (MuTOA): A grouping in one location of several telecommunications/outlet connectors.

Nanosecond (ns): One billionth of a second (10⁻⁹ seconds).

Near-end Crosstalk (NEXT Loss): The undesired coupling of a signal from one pair of wires to another. Signal distortion as a result of signal coupling from one pair to another at various frequencies.

Network Demarcation Point: The point of interconnection between the local exchange carrier's telecommunication facilities and the telecommunications systems wiring and equipment the end user's facility. This point shall be located on the subscriber side of the telephone company's protector or the equivalent thereof in cases where a protector is not required.

Open Office Cabling: The cabling that distributes from the telecommunications closet to the open office area utilizing a consolidation point or multi-user telecommunications outlet assembly.

Optical Fibre Transmission: A communications scheme whereby electrical data is converted to light energy and transmitted through optical fibres.

Outlet/Connector, Telecommunications: A connecting device in the work area on which horizontal cable terminates.

Patch Cord: A length of cable with connectors on one or both ends used to join telecommunications links at a cross-connect.

Patch Panel: Connecting hardware that typically provides means to connect horizontal or backbone cables to an arrangement of fixed connectors that may be accessed using patch cords or equipment cords to form cross-connections or interconnections.

Pathway: A facility (i.e. conduit) for the placement and protection of telecommunications cables. Same as raceway or ducting.

Plenum: A compartment or chamber to which one or more air ducts are connected and that forms part of the air distribution system.

PoE: Typically associated with IEEE 802.3 applications, Power over Ethernet is a remote powering strategy whereby up to 1A of current per balanced twisted-pair is used to deliver up to 100W of dc power to an IP-enabled device.

Private Branch Exchange (PBX): A private switching system usually serving an organisation, such as a business, located on the customer's premises. It switches calls both inside a building or premises and outside to the telephone network, and can sometimes provide access to a computer from a data terminal.

Propagation Delay: The amount of time that passes between when a signal is transmitted and when it is received at the opposite end of a cable or cabling.

Punch Down: A method for securing wire to a quick clip in which the insulated wire is placed in the terminal groove and pushed down with a special tool. As the wire is seated, the terminal displaces the wire insulation to make an electrical connection. The punch down operation may also trim the wire as it terminates.

Return Loss: Noise or interference caused by impedance discontinuities along the transmission line at various frequencies; may be called echo. Return loss is expressed in decibels.

Shielded twisted-pair (F/UTP): A balanced twisted-pair cable surrounded by foil (screen) and bound in a single cable sheath.

Shielded twisted-pair (F/FTP): A balanced twisted-pair cable where each twisted pair is surrounded by an individual foil, and all four pairs are surrounded by an overall foil (screen), bound in a single cable sheath.

Singlemode Optical Fibre: An optical fibre that will allow only one mode of light to propagate; this fibre is typically a step-index fibre.

Small Form Factor: An optical fibre connector and adapter that provide for two strands of fibre in a footprint similar to an unshielded twisted-pair (RJ-style) plug and socket.

Star Topology:

1. A method of cabling each telecommunications outlet/connector directly to a cross-connect in a horizontal cabling subsystem.
2. A method of cabling each cross-connect (HC and IC) to the main cross-connect (MC) in a backbone cabling subsystem.

Surge: A rapid rise in current or voltage, usually followed by a fall back to a normal level; also referred to as a transient.

Telecommunications: Any transmission, emission or reception of signs, signals, writings, images, sounds or information of any nature by cable, radio, visual, optical or other electromagnetic systems.

Telecommunications Room (TR): An enclosed space for housing telecommunications equipment, cable terminations, and cross-connect cabling used to serve work areas located on the same floor. The telecommunications room is the typical location of the horizontal cross-connect and is considered distinct from an equipment room because it is considered to be a floor serving (as opposed to building or campus serving) facility.

Topology: The physical or logical layout of links and nodes in a network. These include star, ring, and bus configurations.

Transfer Impedance: A measure (in milliohms/metre) of shield effectiveness.

Trunk: A communication line between two switching systems. The term "switching systems" typically includes equipment in a central office (the telephone company) and PBXs. A tie trunk connects PBXs. Central office trunks connect a PBX to the switching system at the central office.

Unshielded Twisted-Pair (UTP): A balanced twisted-pair cable bound in a single cable sheath.

Work Area: A space, typically in a commercial building, where the occupants interact with telecommunications equipment.

Work Area Cord: See Cord.

Zone Cabling: A Standards-recognized cabling infrastructure topology consisting of horizontal cables run from the horizontal interconnect or cross connect in the telecommunications room (TR) to an intermediate connection point that is typically housed in a zone enclosure (sometimes called a zone box or floor box) located in the ceiling, on the wall, or below a raised floor

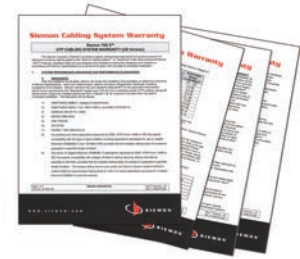
Acronyms & Abbreviations

ACR	Attenuation-to-crosstalk ratio
ANSI	American National Standards Institute
AWG	American wire gauge
BAS	Building Automation System
BD	Building distributor
BER	Bit Error Rate
CD	Campus distributor
CP	Consolidation point
CSA	Canadian Standards Association
dB	Decibel
DA	Distributor A
DB	Distributor B
DC	Distributor C
EF	Entrance facility
EMC	Electromagnetic compatibility
EMI	Electromagnetic interference
EO	Equipment Outlet
ER	Equipment room
FCC	Federal Communications Commission
FD	Floor distributor
ft	Feet
FEXT	Far-end crosstalk
F/UTP	Shielded or screened twisted-pair
Gb/s	Gigabit per second
GHz	Gigahertz
HC	Horizontal cross-connect
HDA	Horizontal Distribution Area (same as Zone Distributor in ISO)
HVAC	Heating, ventilation and air conditioning
IC	Intermediate cross-connect
IDA	Intermediate Distribution Area
IDC	Insulation displacement connection
IEC	International Electrotechnical Commission
IEEE®	Institute of Electrical and Electronic Engineers®
ISO	International Standards Organisation
Kb/s	Kilobit per second
Km	Kilometre
LAN	Local area network
lbf	Pounds force
LED	Light emitting diode
m	Metre
µm	Micron; one millionth of a metre (0.000001); also micrometre
Mb/s	Megabits per second
MC	Main cross-connect
MDA	Main Distribution Area (same as Main Distribution in ISO)
MPO	Multi-fibre push on
MTP®	Registered trademark of US ConneX MPO-Style Connector
MHz	Megahertz
MHz.km	Megahertz kilometre
mm	Millimetre
MuTOA	Multi-user Telecommunications Outlet Assembly
NAS	Network Attached Storage
NEXT	Near-end crosstalk
nm	Nanometre
POE	Power over Ethernet
PBX	Private branch exchange
PDU	Power Distribution Unit
RF	Radio frequency
RMS	Rack mount space
SAN	Storage Area Network
SC	Subscriber connector
S/FTP	Fully shielded twisted-pair
TIA	Telecommunications Industry Association
TO	Telecommunications outlet/connector
UL®	Underwriters Laboratories Inc.®
UPS	Uninterruptible power supply
USOC	Universal Service Order Code
UTP	Unshielded twisted-pair
Vrms	Volts root mean square
WA	Work area
ZDA	Zone Distribution Area (same as Local Distribution Point in ISO)

Warranty

Siemon delivers a range of product and system warranties:

- A one (1) year repair or replace warranty on Tools and Testers and active electronics (ie MapIT G2)
- A five (5) year repair or replace warranty for all Siemon Products (cabling system connecting hardware) when not installed in a certified Siemon Cabling System®
- An extended Siemon Cabling System Warranty covering application assurance, product, quality and performance margins when designed and installed by a Siemon Certified InstallerSM and registered with Siemon.



*Please contact your local Siemon Company sales office or visit Siemon's website for more information.

Limited Five (5) Year Product Warranty

Siemon warrants its products to be free from defects in material and workmanship. Should any product fail to conform, Siemon will, upon written notice from Distributor of such non-conforming product, within five (5) years after date of purchase, either replace it F.O.B. original point-of-delivery, or refund the purchase price, at Siemon's option, and shall have the right to require Distributor to return the defective product to Siemon's plant unless such return is impracticable. The remedies provided herein shall be Buyer's sole and exclusive remedies, and no statement or recommendation not contained herein shall have any force or effect unless in writing and signed by an authorized officer of Siemon. Siemon makes no warranty, expressed or implied, as to merchantability or fitness for a particular purpose of any product sold. In no event will Siemon be liable for any special incidental, or consequential damages, where asserted in contract, tort, or otherwise. This warranty applies only to those cabling products that are used to terminate or cross-connect telecommunications cabling. Warranty terms for other categories of cabling products (e.g., tools, test equipment, protection apparatus, etc.) may vary.

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